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**Question Paper Code: U8D70**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

One Credit

Biotechnology

21UBT870- BIOSAFETY REGULATIONS

(Regulations 2019)

Duration: 1.30 hours

Maximum: 50 Marks

Answer All Questions

PART A - (9x 2 = 18 Marks)

1. Define GRAS CO1- U
2. Write a short note on RCGM CO1- U
3. List out the different types of gloves used for laboratory purpose CO1- U
4. Which agency is responsible for regulating disinfectants? Write a note on it. CO2- U
5. The time required for a control agent to kill 90% of the microorganisms or spores in a sample under specified conditions is called as? Write down its importance CO2- App
6. Assume that you have transferred a gene into a vector. Now help me with a method to identify whether the transformation is successful or not CO2- App
7. Draw the layout of Biosafety cabinet used in your lab with the directions of various airflows CO3- U
8. Lab instructor has asked your batch mate to prepare 1N Hcl for adjusting pH of your sample. Now, help him to choose a place to prepare it. Justify your answer. CO3- U
9. Illustrate the procedure for getting approval from the regulatory bodies to do trials and Environmental release of GMOs CO4- U

PART – B (2 x 16= 32 Marks)

10. (a) Write a detailed note on different layers of containments use in biological laboratories CO1- U (16)
- Or
- (b) Analyze the requirements that are used to assess the safety of Golden rice and submit a detailed report on it. CO3- Ana (16)

11. (a) Write a detailed note on different Bio-safety levels and their corresponding safety measures, BSCs and types of microorganisms handled in it. CO1- U (16)

Or

- (b) You have joined as a junior analyst in Amgen pharmaceuticals for analyzing a GMO derived products. Write the corresponding strategies that you will adapt for detecting them. CO4- U (16)